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Claims

- 1. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of
 - i) contacting a test compound with a GPR14 polypeptide,

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- ii) detect binding of said test compound to said GPR14 polypeptide.
- 2. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of

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- i) determining the activity of a GPR14 polypeptide at a certain concentration of a test compound or in the absence of said test compound,
- ii) determining the activity of said polypeptide at a different concentration of said test compound.
- 25 3. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of

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- i) determining the activity of a GPR14 polypeptide at a certain concentration of a test compound,
- ii) determining the activity of a GPR14 polypeptide at the presence of a compound known to be a regulator of a GPR14 polypeptide.
 - 4. The method of any of claims 1 to 3, wherein the step of contacting is in or at the surface of a cell.
- The method of any of claims 1 to 3, wherein the cell is in vitro.

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- 6. The method of any of claims 1 to 3, wherein the step of contacting is in a cell-free system.
- The method of any of claims 1 to 3, wherein the polypeptide is coupled to a detectable label.
 - 8. The method of any of claims 1 to 3, wherein the compound is coupled to a detectable label.
 - 9. The method of any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
- 10. The method of any of claims 1 to 3, wherein the polypeptide is attached to a solid support.
 - 11. The method of any of claims 1 to 3, wherein the compound is attached to a solid support.
- 30 12. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of hematological diseases,

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cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of

i) contacting a test compound with a GPR14 polynucleotide,

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- ii) detect binding of said test compound to said GPR14 polynucleotide.
- 13. The method of claim 12 wherein the nucleic acid molecule is RNA.

14. The method of claim 12 wherein the contacting step is in or at the surface of a cell.

- 15. The method of claim 12 wherein the contacting step is in a cell-free system.
- 16. The method of claim 12 wherein polynucleotide is coupled to a detectable label.
- 17. The method of claim 12 wherein the test compound is coupled to a detectable label.
 - 18. A method of diagnosing a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of
 - i) determining the amount of a GPR14 polynucleotide in a sample taken from said mammal,
- determining the amount of GPR14 polynucleotide in healthy and/or diseased mammals.

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- 19. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising a therapeutic agent which binds to a GPR14 polypeptide.
- 20. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising a therapeutic agent which regulates the activity of a GPR14 polypeptide.
- 21. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising a therapeutic agent which regulates the activity of a GPR14 polypeptide, wherein said therapeutic agent is

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- i) a small molecule,
- ii) an RNA molecule,
- iii) an antisense oligonucleotide,
- iv) a polypeptide,
- v) an antibody, or
- vi) a ribozyme.
- 22. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological

diseases, endocrinological diseases and cancer in a mammal comprising a GPR14 polynucleotide.

- 23. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising a GPR14 polypeptide.
- 10 24. Use of regulators of a GPR14 for the preparation of a pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal.

25. Method for the preparation of a pharmaceutical composition useful for the treatment of a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal comprising the steps of

i) identifying a regulator of GPR14,

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- disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer in a mammal; and
 - iii) combining of said regulator with an acceptable pharmaceutical carrier.

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26. Use of a regulator of GPR14 for the regulation of GPR14 activity in a mammal having a disease comprised in a group of diseases consisting of hematological diseases, cardiovascular diseases, disorders of the peripheral and central nervous system, urological diseases, endocrinological diseases and cancer.